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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590 02/23/2010

SCHWEGMAN, LUNDBERG & WOESSNER, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402 EXAMINER

HILL, KEVIN KAI

ART UNIT PAPER NUMBER

1633

DATE MAILED: 02/23/2010

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/815,262	03/31/2004	John F. Engelhardt	875.074US1	7471

TITLE OF INVENTION: COMPOUNDS AND METHODS TO ENHANCE RAAV TRANSDUCTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	05/24/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifica	correspondence including below or directed oth tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of a) specifying a new corn	maintenance fees verspondence address	vill be ; and/o	mailed to the current r (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
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							(Signature)
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APPLICATION NO.	APPLICATION NO. FILING DATE F.		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRM.		CONFIRMATION NO.
10/815,262	03/31/2004	•	John F. Engelhardt		•	875.074US1	7471
APPLN, TYPE	SMALL ENTITY	METHODS TO ENHANG	PUBLICATION FEE DUI	_		TOTAL FEE(S) DUE	DATE DUE
					E FEE	1	
nonprovisional	YES	\$755	\$300	\$0 ¬		\$1055	05/24/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
HILL, KE		1633	424-093100				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 		or agents OR, alterna (2) the name of a sin registered attorney of 2 registered patent at	ames of up to 3 registered patent attorneys OR, alternatively, ame of a single firm (having as a member a d attorney or agent) and the names of up to red patent attorneys or agents. If no name is name will be printed. 1 2 3				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is identi h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assign n assignment. "Y and STATE OR (COUNT	TRY)	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	■ Individual □ C	orporat	ion or other private gro	oup entity Government
`	are submitted: To small entity discount p # of Copies	permitted)	b. Payment of Fee(s): (PI A check is enclosed Payment by credit c The Director is here overpayment, to De	ard. Form PTO-2038 by authorized to cha	is atta	ached. required fee(s), any de	
5. Change in Entity Sta	tus (from status indicated s SMALL ENTITY statu	· ·	☐ b. Applicant is no lo	onger claiming SMA	II EN'	TITV status See 37 Cl	FR 1.27(α)(2)
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Authorized Signature				Date			
Typed or printed name				_			
This collection of inform an application. Confident submitting the completed his form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 I application form to the ions for reducing this but Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th ONOT SEND FEES OR	on is required to obtain o 1.14. This collection is o depending upon the inc the Chief Information Offi COMPLETED FORMS	r retain a benefit by estimated to take 12 lividual case. Any co cer, U.S. Patent and TO THIS ADDRES:	the pub minute: ommen Trader S. SEN	lic which is to file (and s to complete, including ts on the amount of time mark Office, U.S. Depa D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/815,262	03/31/2004	John F. Engelhardt	875.074US1	7471
21186 75	590 02/23/2010		EXAM	INER
SCHWEGMAN, LUNDBERG & WOESSNER, P.A.		HILL, KEVIN KAI		
P.O. BOX 2938			ART UNIT	PAPER NUMBER
MINNEAPOLIS, MN 55402		1633		
		DATE MAILED: 02/23/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 141 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 141 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Examiner-Initiated Interview Summary	10/815,262	ENGELHARDT ET AL.	
Examiner initiated interview duminary	Examiner	Art Unit	
	KEVIN K. HILL	1633	
All Participants:	Status of Application:		
(1) <u>KEVIN K. HILL, USPTO</u> .	(3)		
(2) Jan Embretson, Applicant's representative.	(4)		
Date of Interview: 6 January 2010	Time:		
Type of Interview: ☐ Telephonic ☐ Video Conference ☐ Personal (Copy given to: ☐ Applicant Exhibit Shown or Demonstrated: ☐ Yes ☐ No If Yes, provide a brief description:	nt's representative)		
Part I.			
Rejection(s) discussed:			
Claims discussed: 1 and 43			
Prior art documents discussed:			
Part II.			
SUBSTANCE OF INTERVIEW DESCRIBING THE GENER See Continuation Sheet	RAL NATURE OF WHAT WAS	S DISCUSSED:	
Part III.			
 It is not necessary for applicant to provide a separate redirectly resulted in the allowance of the application. The of the interview in the Notice of Allowability. It is not necessary for applicant to provide a separate redid not result in resolution of all issues. A brief summary 	e examiner will provide a writte ecord of the substance of the	en summary of the substance interview, since the interview	
(A	pplicant/Applicant's Representat	ive Signature – if appropriate)	
`		== * '	

Continuation of Substance of Interview including description of the general nature of what was discussed: The Examiner proposed amending independent Claims 1 and 43 to the following:

Claim 1. A method to enhance recombinant adeno-associated (rAAV) transduction of a mammalian cell, the method comprising contacting the mammalian cell at the time of rAAV infection with an amount of an anthracycline and an amount of a tripeptide aldehyde that inhibits proteosome proteolytic activity that together more than additively enhance rAAV transduction.

Claim 43. A method to enhance rAAV transduction of a mammalian cell, the method comprising contacting the mammalian cell at the time of rAAV infection with an amount of a peptide that inhibits proteosome proteolytic activity and an amount of an anthracycline, selected from the group consisting of doxorubicin, duanorubicin, idarubicin and epirubicin, that together more than additively enhance rAAV transduction.

Participants also discussed amendments to previously withdrawn dependent claims in accordance to their respective independent claims.